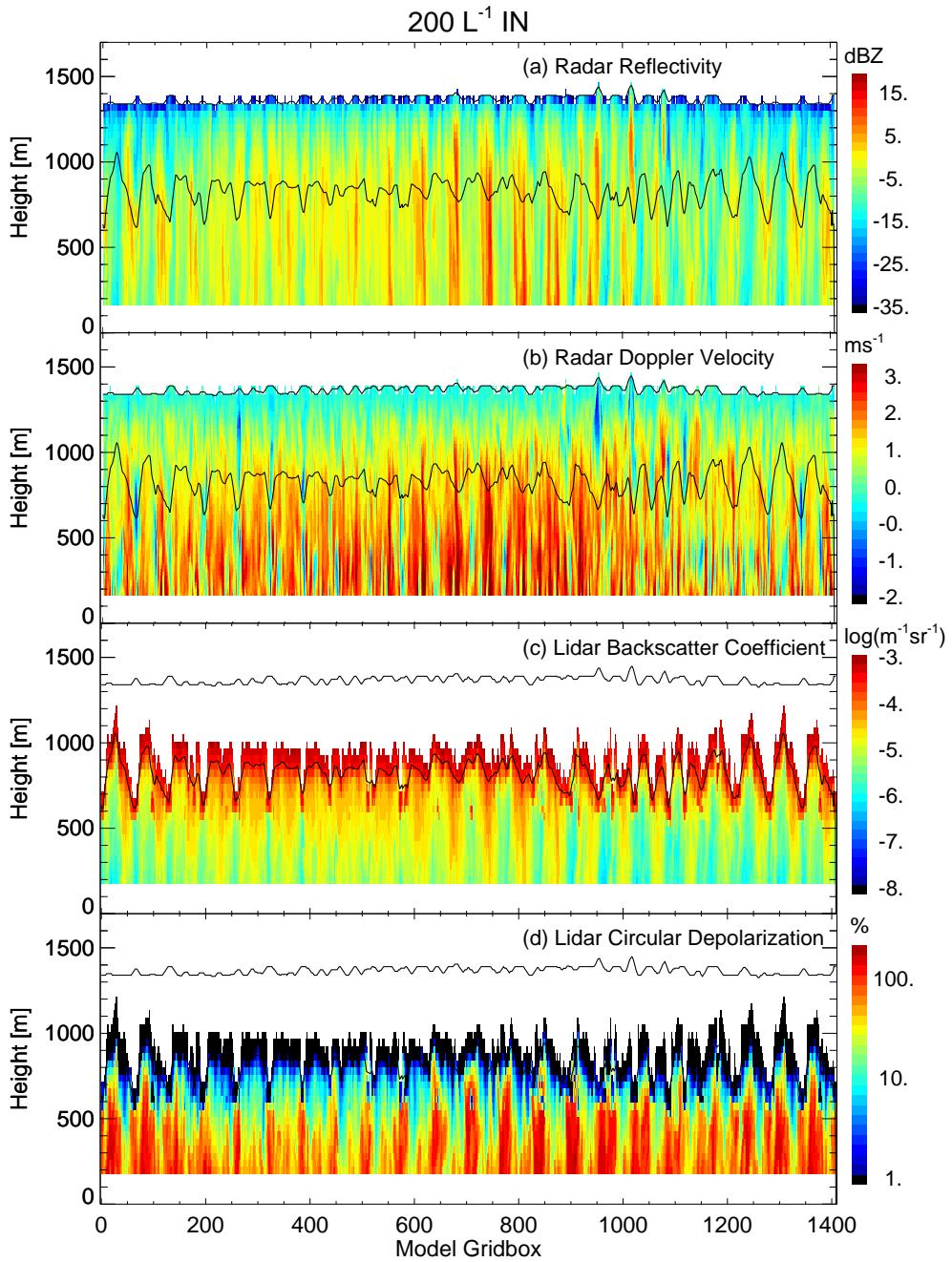
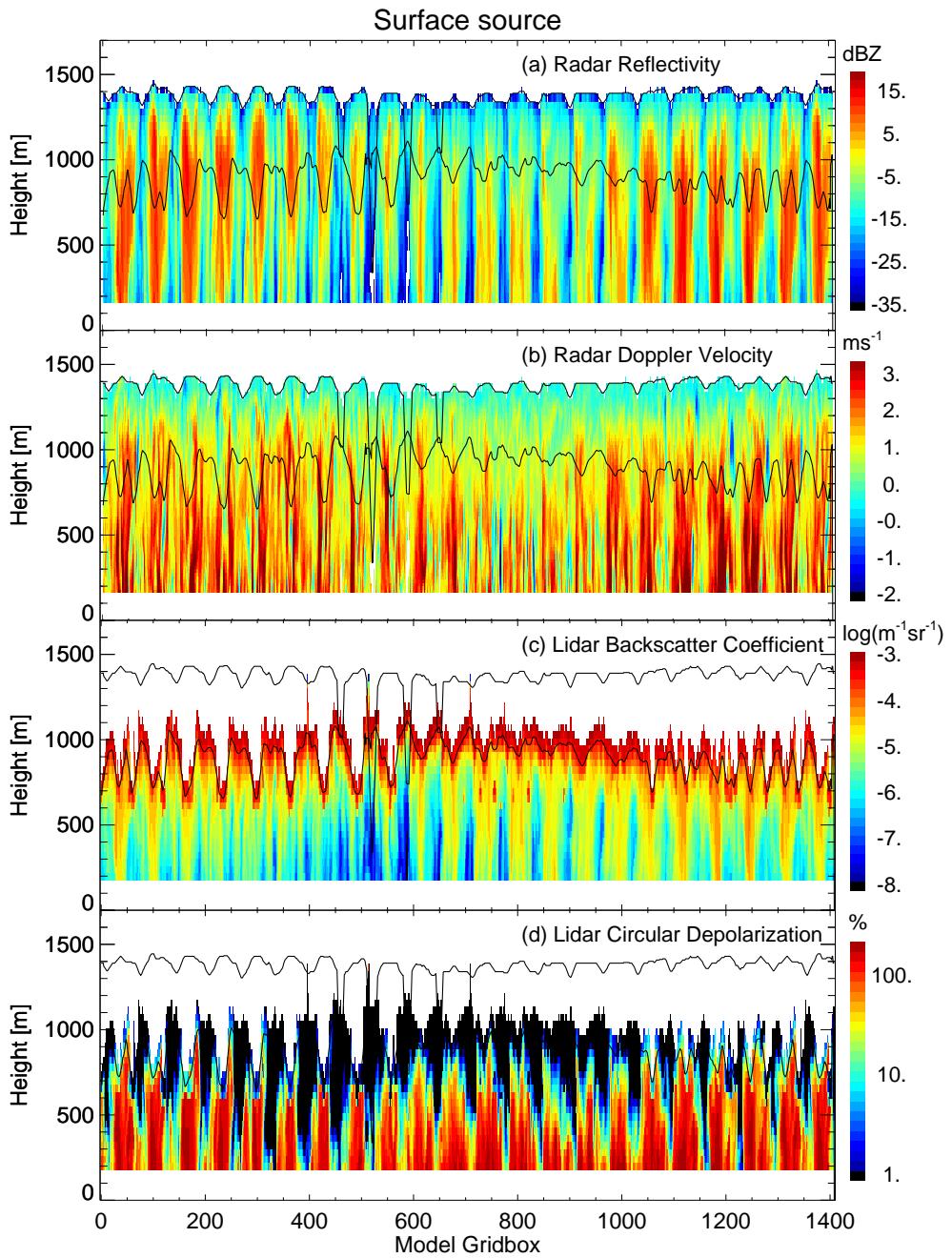


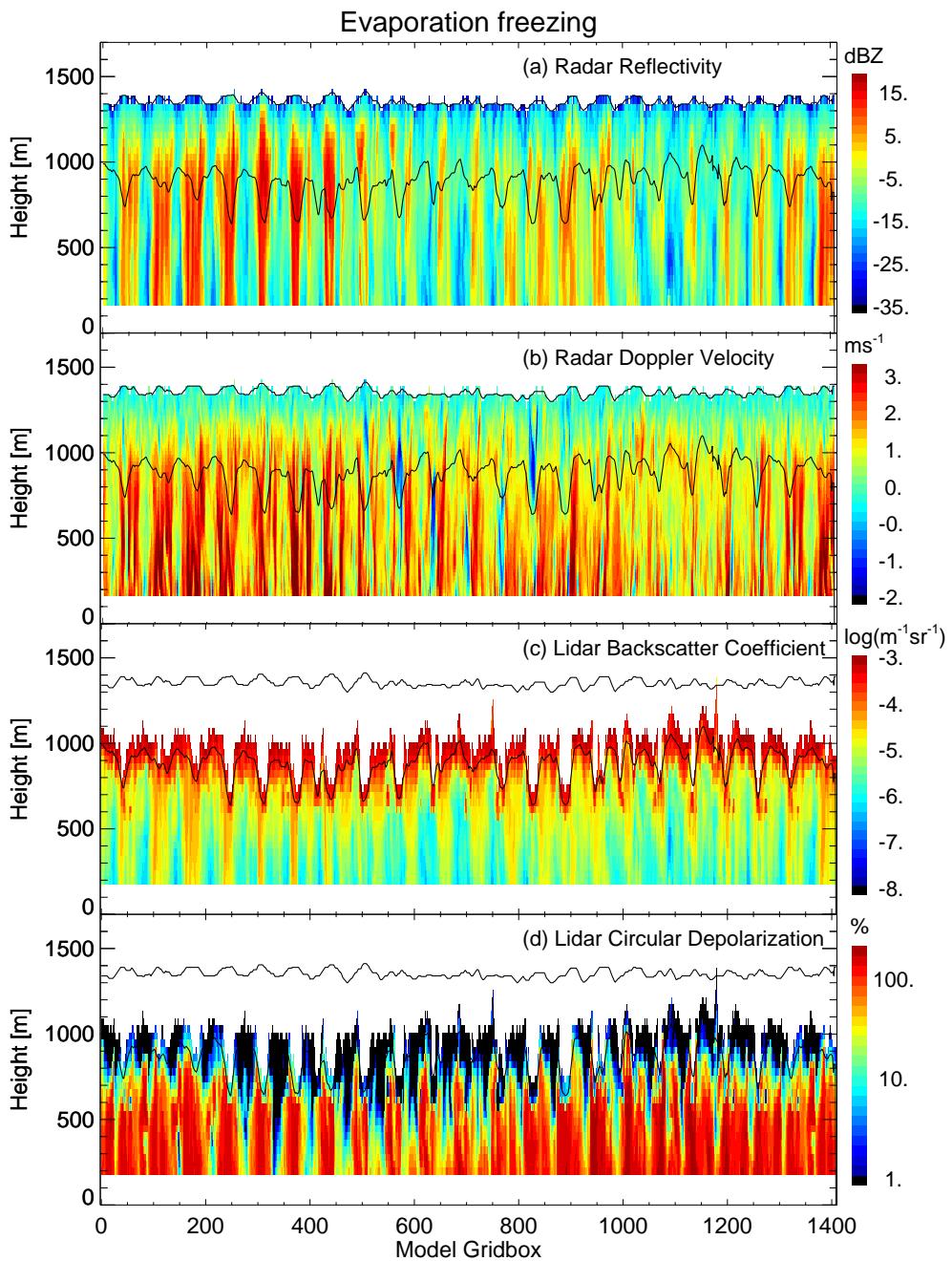
**Figure S1:** As Fig. 2 but for simulated measurements based on the large-eddy simulation including slower ice fall velocities (simulation (b) as described in section 3.1).



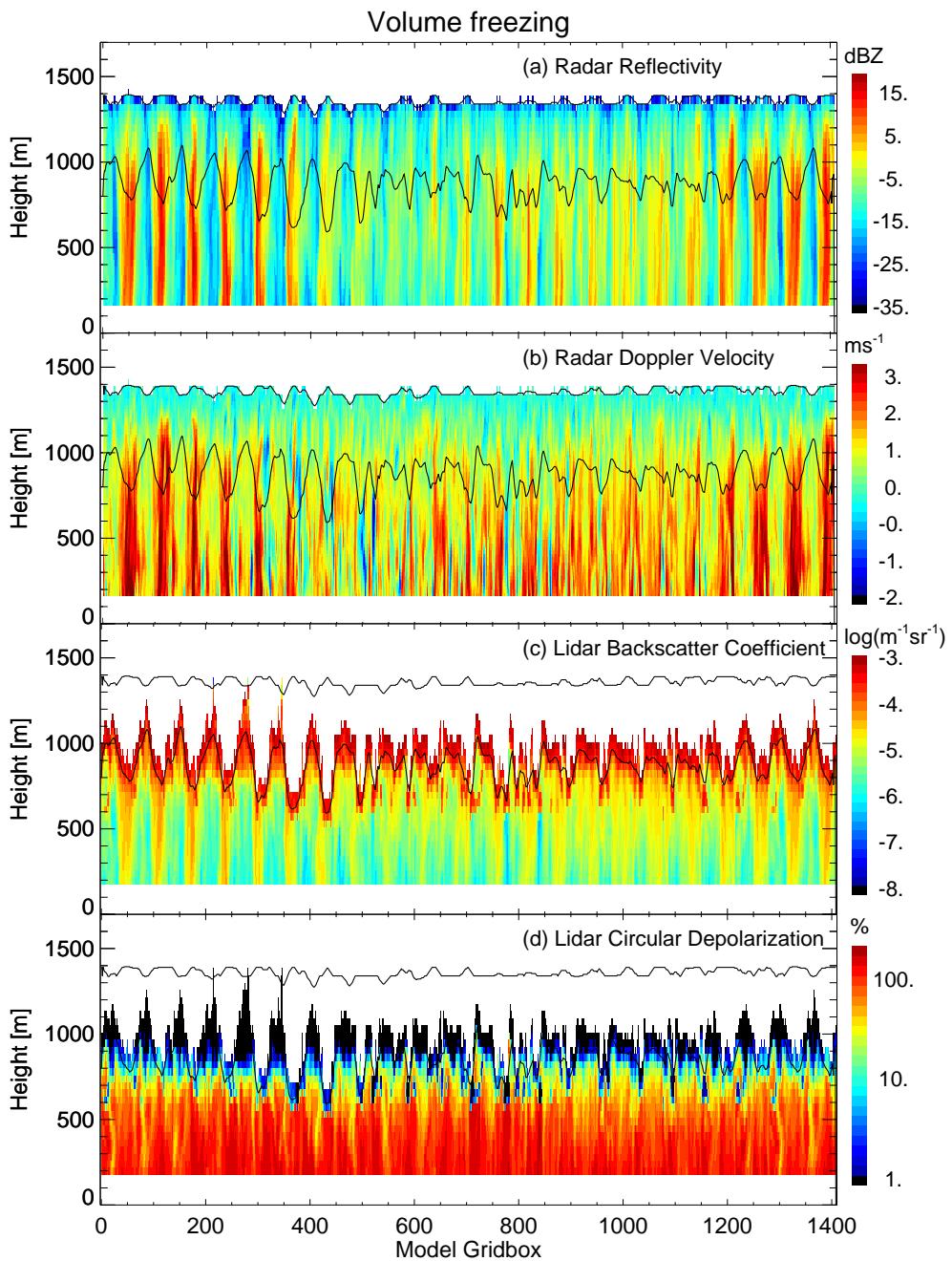
**Figure S2:** As Fig. 2 but for simulated measurements based on the large-eddy simulation including an IN concentration of 200 L<sup>-1</sup> (simulation (c) as described in section 3.1).



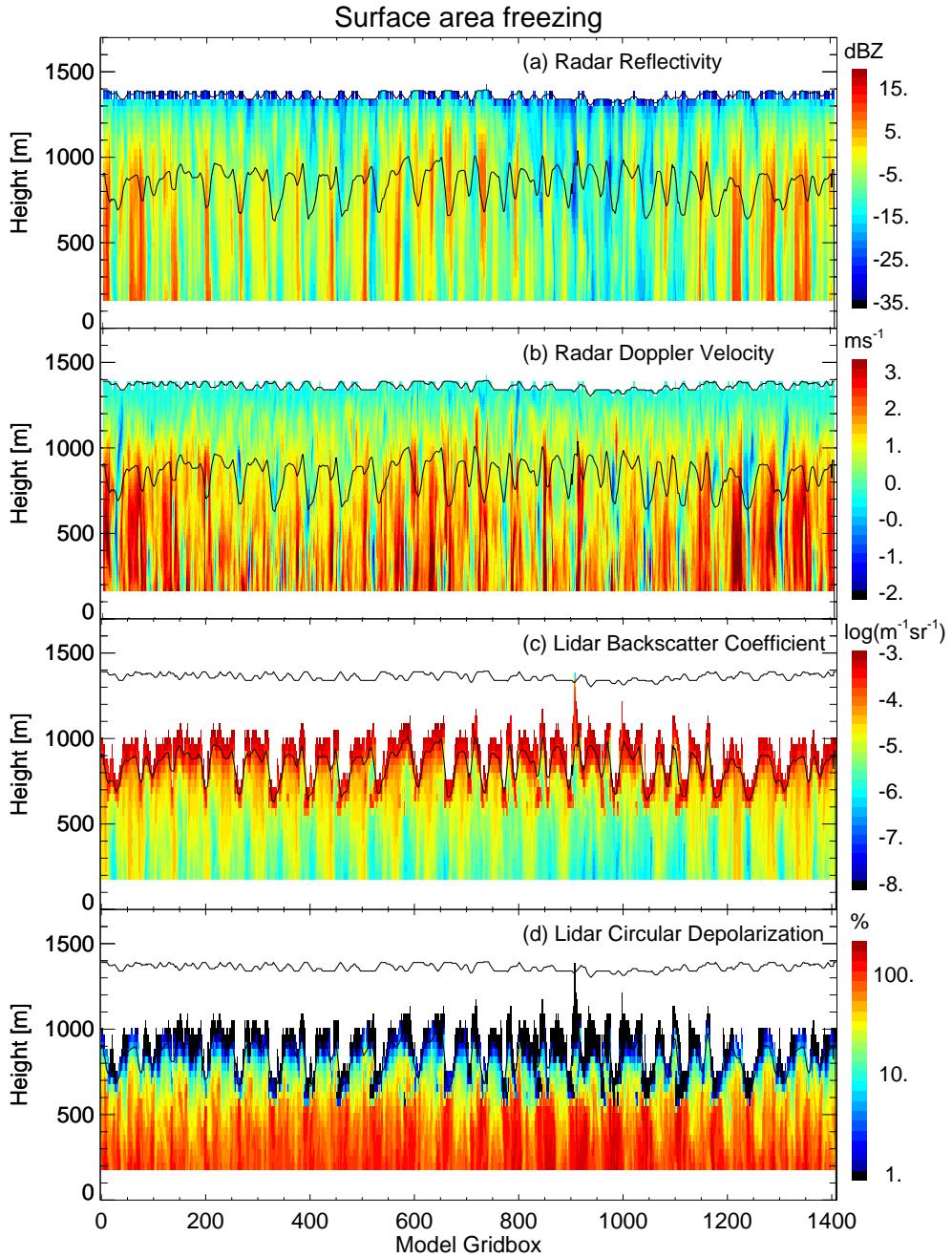
**Figure S3:** As Fig. 2 but for simulated measurements based on the large-eddy simulation including a surface source of IN (simulation (d) as described in section 3.1).



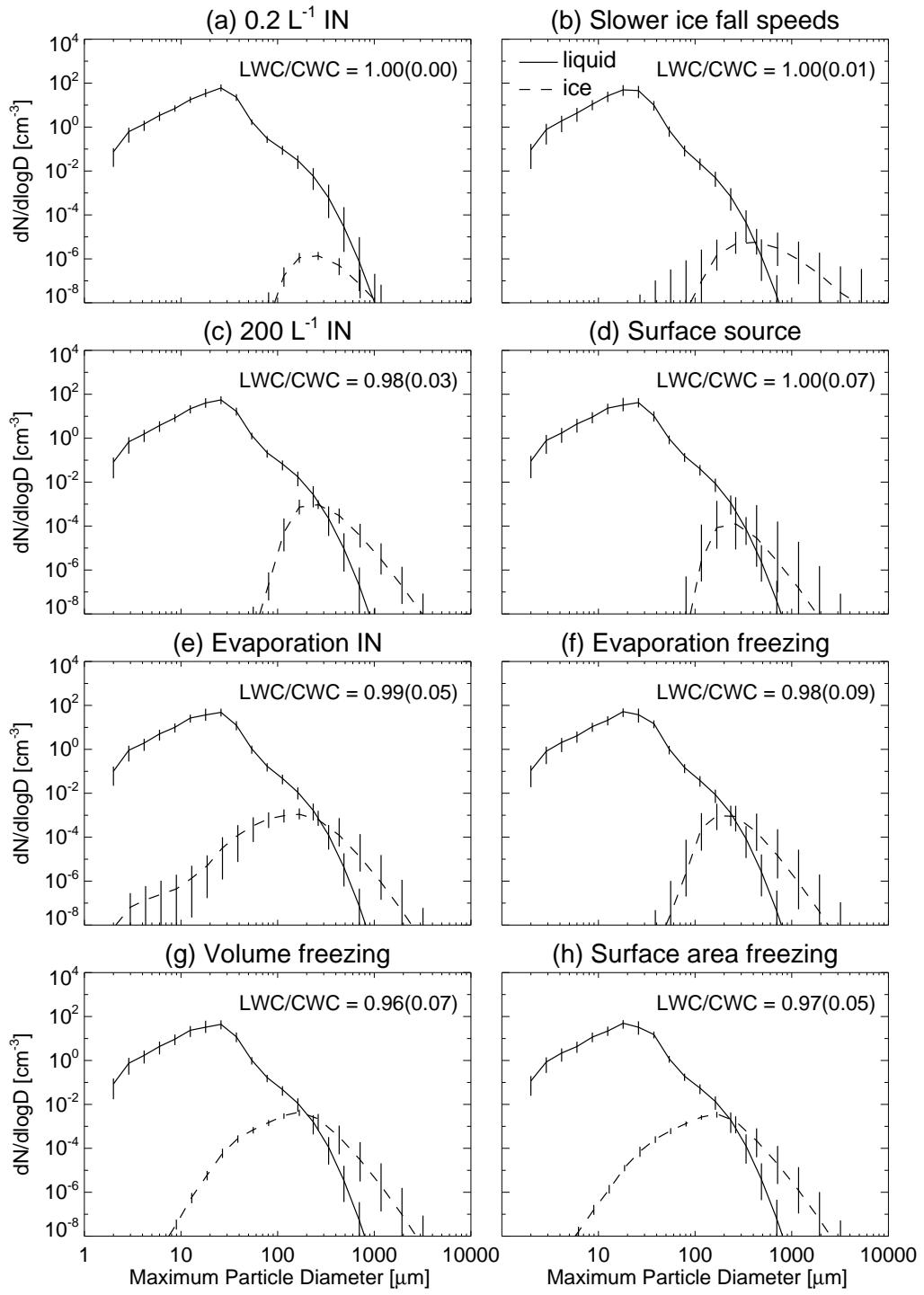
**Figure S4:** As Fig. 2 but for simulated measurements based on the large-eddy simulation including freezing of evaporating drops (simulation (f) as described in section 3.1).



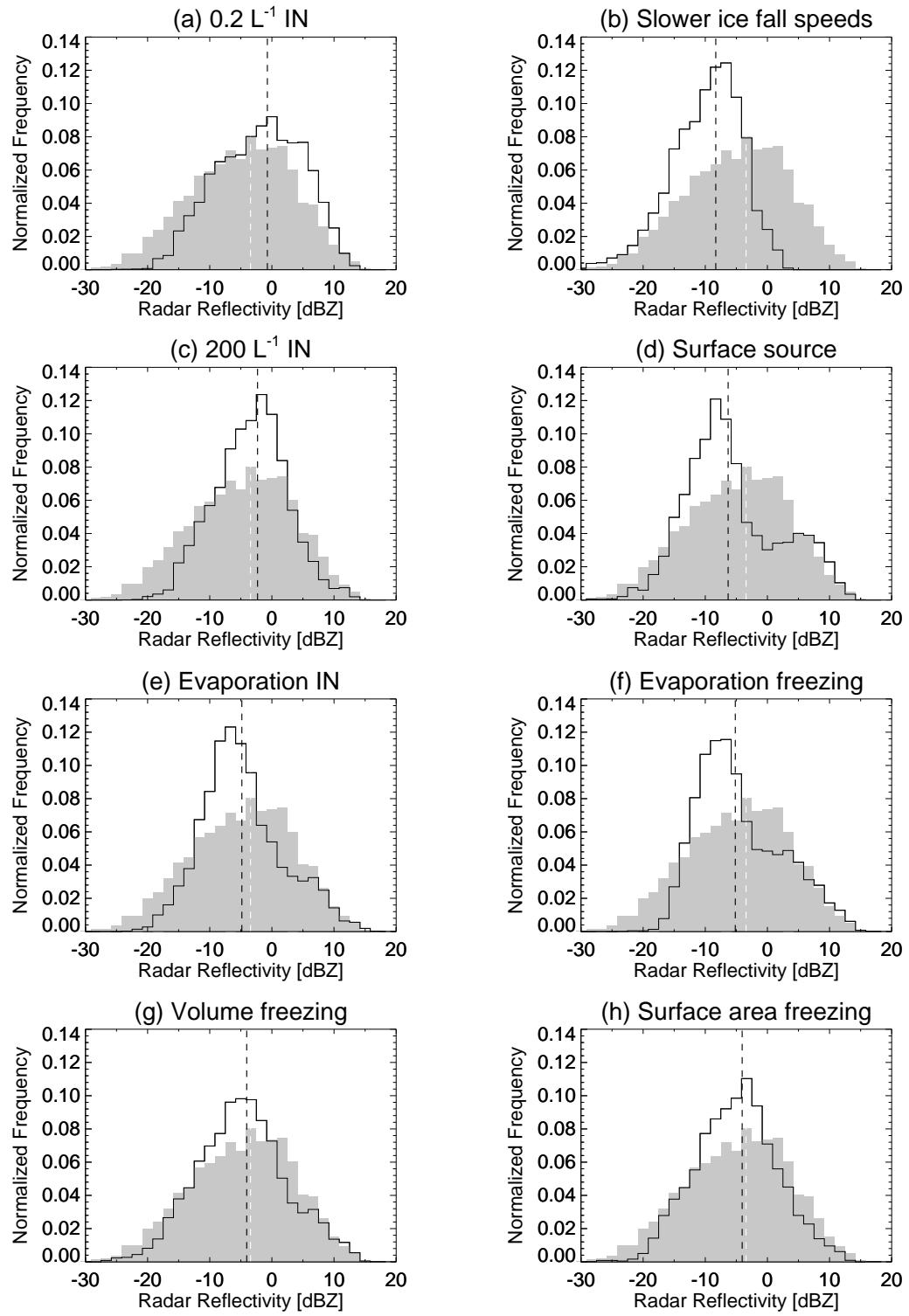
**Figure S5:** As Fig. 2 but for simulated measurements based on the large-eddy simulation including a freezing rate per unit volume (simulation (g) as described in section 3.1).



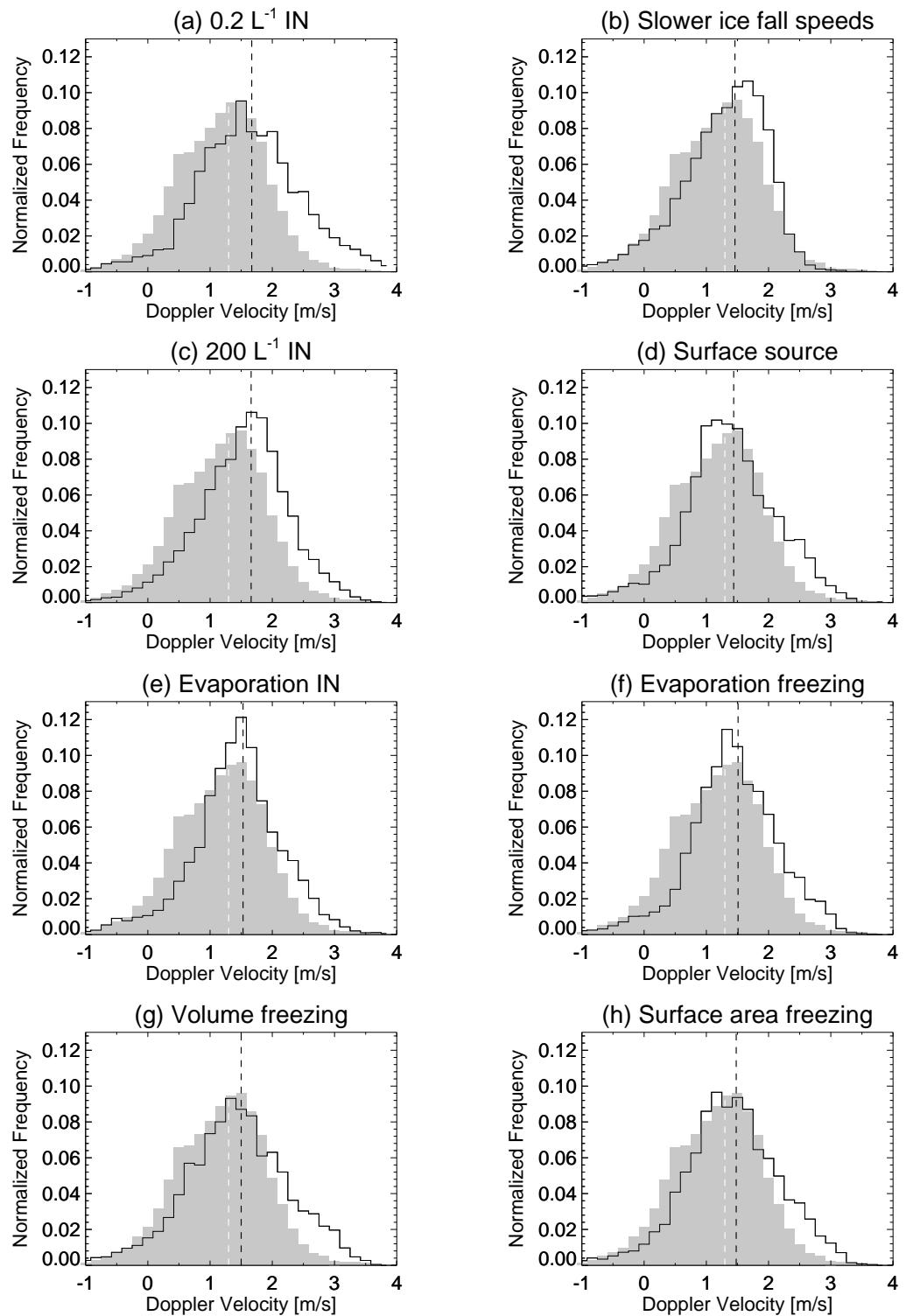
**Figure S6:** As Fig. 2 but for simulated measurements based on the large-eddy simulation including a freezing rate per unit surface area (simulation (h) as described in section 3.1).



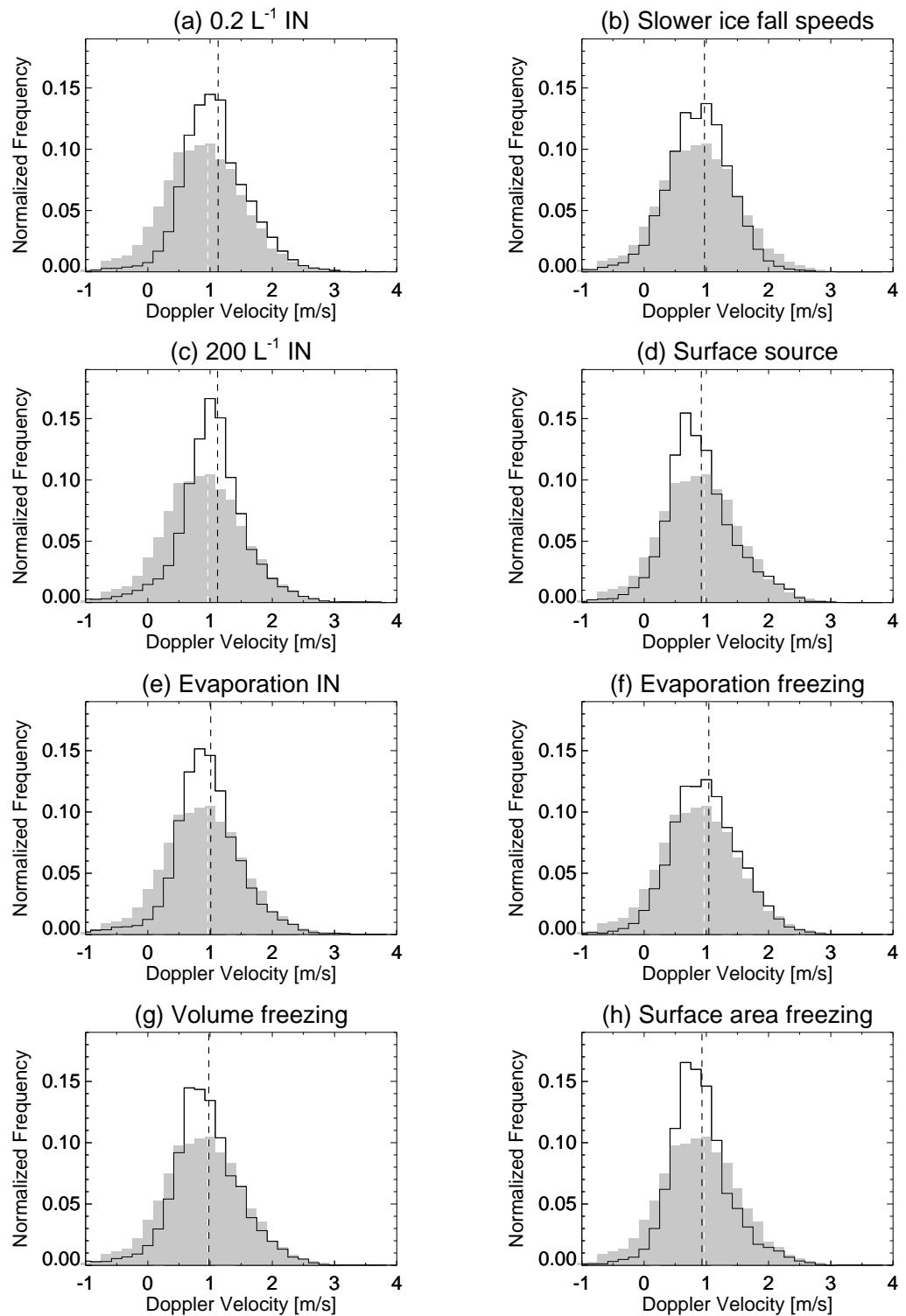
**Figure S7:** Same as Fig. 4, but for the sampled particle size distributions in the cloud.



**Figure S8:** Same as Fig. 5 but for equivalent radar reflectivities in the cloud.



**Figure S9:** Same as Fig. 5 but for Doppler velocities below cloud base.



**Figure S10:** Same as Fig. 5 but for Doppler velocities in the cloud.